Western Washington Amateur Relay Association

The Coordinator

December 1990 Issue

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Election Time Again

By K7CR

Once a year the WWARA, at its annual first Saturday in December meeting, elects a new Chairman, Vice-Chairman, Secretary/Treasurer and two of its four Board members. This year its December 1.

Our bylaws state that the Chair, Vice and Sec/tres can be reelected, however the would be elected members to the Board must be new individuals. Outgoing this year will be holders of positions 1 (John Miller who was forced to resign recently due to illness) and 3 (Don Rose). This is your chance, your opportunity to get in on the action. The WWARA is not a clique of good ole boys that run things...its YOUR association. You can make a difference by not only being willing to serve but by being there to cast your vote.

Oh yes, the most important requirement, you must be a paid up member of the WWARA to vote or be voted for....your dues are paid aren't they??

A FEW WORDS ABOUT THE ELECTION

...by Outgoing Chairman, Clay Freinwald

In the last year we have seen a number of changes in the WWARA....A change in meeting location to ones that are more centralized relative to our population. The beginning of a complete overhaul in the Association's Data Base to one central system, replacing a fragmented disorganized mess, a new look to the Associations newsletter, the COORDINATOR.

We have made improvements, to be sure, however a lot of work is yet to be done to get the WWARA up to speed for the 90's, that is a well oiled and working machine. The time it takes to process requests for coordination is too long. Our lack of organization in keeping good paper records is of concern to me. This is not meant to be critical of the officers of this past year but to challenge all of you for the up coming one.

The next meeting of the Association will be a time to select new blood to further the goals of the WWARA...I sincerely hope that we don't repeat the past where we reshuffle the deck...ie...the officers move around the table so as to not violate the Bylaws and we end up with the same old faces...or former officers are reelected.

We need new ideas...new people...people who will be active in the day to day operation of the WWARA, not just set back and let the others do it. If you are interested in Coordination, have organizational skills, or experience that you feel can benefit the WWARA...I want to see you at the next meeting. Let it be known that you are willing to serve, my wish is to have a Board filled with DOERS. This is not Clay Freinwald or Jon Marcinkos repeater association...the reason you have seen our names for so many years is that we have been willing to DO...not just set on our _____ and let others. There are others that have, of late been Doers, Herman Entz, Mark and Nancy McKibbin, Bob St Andre etc...add your name to the list...DO I HAVE YOUR ATTENTION YET??? See ya at the meeting...and, by the way, thanks!!!

CHANGES IN THE LOOK OF THE COORDINATOR...K7CR

The newsletter of the WWARA has for many years been printed in Tacoma by Dick Ryan, W7RGD, who also prints the Radio Club of Tacoma's "Loggers Bark". Dick, who has been retired from the State Patrol from several years recently voiced his desire to also retire from the printing business. His wish has been our command. On behalf the WWARA I want to thank Dick for his work over the years, the many nights spent sorting out what I sent him via modem and finally printing on his offset to get the Coordinator out on time, and for basically expenses....thanks again Dick, you have played a major part of making the WWARA what it is today, you will be missed. To the rest of us working stiffs...kick back and maybe work a little DX instead, even your fingers will be cleaner.

(continued next page)

IN THIS ISSUE

Meeting Notice	Page 3
WARC-92	Page 2
DAB Spectrum	Page 3
Micro Splits	Page 4
Regional Tones	Page 4
Board Minutes	Page 5
Regional Minutes	Page 7
Dues Increase	Page 2

Starting with this issue the coordinator will be assembled by Mark McKibbin with news items and editorial content coming from this old computer as usual. Printing will be done by a commercial print shop in Issaquah. Our newsletter will not be as large as in the past, but we do have to work within the budget we have, that is unless one of you happens to be a printer and wishes to step forward. Mark will tell the whole story at the next meeting, mean time, hang in there.

WARC-92 MAY EFFECT VHF/UHF BANDS...K7CR

Fasten your seat belt, here we go again. In the past WARC, the World Administrative Radio Conference, sent shudders up the spines of the avid HF Amateurs, with the increased international activity on the higher frequencies the pressure to "changed ownership" of this spectrum has increased.

It appears that a number of folks have their eyes on spectrum where you and I operate repeaters. 420 is being looked at for spectrum for wind profilers (aircraft safety systems) The Broadcast industry is on the march looking for spectrum for its new Digital Audio Broadcasting, DAB. With the pressure behind this move the weakest link will be quick to surface and be pounced upon.

After the 220 mess we can no longer feel confident that the rug will not be jerked again.

WWARA DUES, CHANGES IN THE WIND?...K7CR

After some 14+ years of operation the WWARA Board in their last meeting voted to approve an increase in dues from $10 to $12 per calendar year. This proposed change must be voted on by the membership at the next meeting to become effective. If approved, 1991 dues would be $12/calendar year/repeater group/owner or user. It is presumed that those that have paid dues in advance, beyond 1990, would be given credit for payment for those years, ie, they would not have to make up the difference.

Your mailing label for this coordinator contains the date through which your dues are paid. If the mailing label contains no date please consider supporting the WWARA and this publication by becomming a paid member.

Remember when paying dues to the WWARA:

1. **Make your check payable to WWARA, please don't send cash.**
2. **Write the *FREQUENCY and CALL* of your repeater group on the face of your check.**
3. **Mail your check to the WWARA, or better yet, hand it to the Treasurer at the next meeting!!**

BIG CHANGES TO THE NORTH...K7CR

While you're waiting for the outcome of WARC here is something that you can be thinking about now. Canada has just (October 1) made a major change in the way they look at what mode amateurs transmit where. Here in the States the FCC has a complicated system whereby we are restricted to certain modes within certain sub-bands (FM, TV, SSB, CW etc). For years the DOC has operated in much the same way, granted there have been some differences, but for the most part our neighbors have operated within our jointly agreed to band plans.

Under the new rules the ONLY restriction Canadian Amateurs will have as to where they operate what mode will be bandwidth!!...and talk about bandwidth....here are some of the new limits...10 meters-20KHz, 6 and 2 meters-30KHz, 220-100KHz with 430 and 902 being "LIMITED" to 12MHz!!!!

What this all means is you just might hear a VE operating with a strange mode on a frequency that has been historically used for another, and with some wide bandwidths.

The DOC being aware of the potential for abuse here has cautioned Canadian Amateurs to abide by mutually agreed to band plans and to avoid causing across the border concerns.

Let the WWARA know if you hear something strange coming from the North.

LEAGUE READIES FOR 220 HEARING...ARRL Letter

In preparation for its Nov 16 day in court the ARRL has filed a "Reply Brief for Petitioner" with the U.S. District Court of Appeals, D.C. Circuit, in the matter of awarding 220-222 MHz to commercial interests. "Now that respondents' (the FCC) brief has been filed, the most fundamental failings of the proceedings...can be quickly capsuled," the League told the court.

The Reply Brief asserted FCC has "from start to finish" wrongly assessed Amateur use of the 220-222 MHz segment (by incorrectly applying repeater use data to that segment); that FCC did not recognize the special needs of high-speed packet in the segment; and that the Commission reversed its policy of mandating increased efficiency in spectrum use without discussing the reasons.

"The Commission acted," the League's brief concluded, "arbitrarily and unreasonably in replacing the amateur with land mobile users. The action of the FCC is reallocations spectrum rather than mandating increase efficiency for land mobile users demonstrates as much. The reallocation of the 220-222 MHz band should be set aside, and the matter remanded to the FCC."

!!! Meeting Notice !!!

- **WHAT - WWARA GENERAL BUSINESS MEETING**
- **WHERE - RIVERSIDE INN, 14060 INTERURBAN AVE SOUTH TUKWILA, WA.**
- **WHEN - SATURDAY DECEMBER 1, 1990 - 10am.**
- **DIRECTIONS - THE RIVERSIDE INN, 14060 INTERURBAN AVE BETWEEN I-5 AND I-450 JUST NORTH OF SOUTH CENTER. IF YOU GET LOST - - -CALL THE RIVERSIDE AT 244-5400**

The Treasurer will be available at 9:30 AM for payment of dues, the meeting will being, promptly at 10:00 AM

Per previous meetings at this location, the WWARA will pick up the tab for the coffee ONLY!! You are welcome to come early and eat breakfast or join us for lunch after the meeting. All Board Members Committee Chairmen and those parties having an interest in matters to be discussed should be in attendance. The meeting is open to anyone interested in the business of the Association. Agenda items are, but are not limited to the following:

- Election of officers.
- Review of outcome of regional coordinators meeting.
- Report on outcome of WWARA/NAPRA talks.
- Board recommendations to increase annual dues to $12.
- Report on progress with the new data base.
- Update on co-channel issues, 145.15 and 147.20.
- New printer for the Coordinator.
- Other news from the floor or items to late to make this notice.
- Items from Board Members, Committees, WWARA members.
- Mail forwarding service.
- New Coordinator/newsletter procedure report.
- Selection of location and date next meeting.

DAB LOOKING FOR SPECTRUM....K7CR

In the event you have not been keeping an eye on the Broadcast Industry there is a new guy in town...its called Digital Audio Broadcasting, or DAB for short and this guy is hot. Some have called this the replacement for AM broadcasting and some have even thought that it will replace todays most popular audio medium, FM Radio!!

Basically DAB is a means of delivering multi-channel CD quality audio to the masses, using a digital format. There are a lot of pluses to this scheme, low transmitter power, CD audio quality, elimination of multipath etc. On the negative side is the spectrum that this system requires...it will need a lot!!!

The FCC is hot on this one also with an NOI already out requesting input.

There are a lot of major questions to be answered, most of them political...like who will own these new "Radio" signals, will they be licensees of local stations, some sort of network system or what...then the subject of spectrum allocation comes in...who is going to give up their spectrum to permit the creation of this new "Radio"??. Some of the suggestions are 728-788 (presently allocated to UHF TV) or 1493-1525 (now used for aircraft telemetry)....or could it be a band presently allocated to.....Amateur Radio?? (2390-2450)

In the event you think that this is pie in the sky...you're wrong...DAB was recently tested in Vancouver B.C. with a 10 watt transmitter on Mt Seymour. Those that witnessed the test told tales of sterling performance, and no multipath. This was a 16 channel system, running 10 Watts!!!

The National Association of Broadcasters (NAB) DAB Task Force has issued an RFP to conduct a DAB spectrum study. The goal of the project is to determine the amount of spectrum needed to provide all existing AM and FM licensees with comparable or improved facilities using this technology and in what frequency band(s) could the broadcast industry obtain the amount of spectrum required??

DAB could have a major impact in the area of spectrum management and it will be wise for all of us that use VHF and UHF spectrum to keep a watchful eye on this issue...oh yes. The NAB has named a 12 member technical advisory committee to serve as an engineering resource for this project...heading up this will be Don Wilkinson, VP/Director of Engineering, Fisher Broadcasting, owner of Seattle's KOMO Radio and TV...and yes, Don is a Ham!!

GREEN SHEETS DUE by WR7V

I have recently had the opportunity to look at each and every GREEN SHEET on file as I have been working on the new WWARA Data Base. I must say some of you are very good about keeping your system current and then, well, there are the rest of you. Of the 400+ coordinated systems over 260 haven't filed a green sheet since 1987. Over 216 haven't filed since 1986 and over 200 haven't filed since before 1985 and some I hate to say haven't updated their sysem since 1976! *It's in your best interest to keep your system current!*

MICRO-SPLITS ON 2 METERS....(Westlink Report)

Amateurs in the Northeast say that more room for repeater and packet is needed on 2 meters and are asking that coordinators begin considering splitting the upper 146-148 subband once more.

Currently, this spectrum is coordinated nationwide (SO THEY THINK...ED) on 15KHz centers, but some say that the time has come to consider going to 7.5 kHz micro-band modulation techniques. This would add another 33% to the available number of repeater channels and lots more space for packet and other digital modes, but there is a price.

This move would make obsolete virtually every piece of radio gear on the air today.

The only alternative seems to be curtailing repeater growth in some regions. This is a solution few hams appear willing to accept as a way out of the 2 meter frequency crunch.

In Southern California, recoordinating the 144.5-145.5 MHz band from the current 20KHz spacing over to 15KHz spacing is being considered. Faced with mounting pressure from packet users for more dedicated space and FM interests who are demanding even greater repeater growth, TASMA, Southern California's 2 meter coordinator, may be forced to make what appears to be a very unpopular decision with the current users of that sub-band.

A coordination spokesman stressed that nothing has been decided yet.

Meanwhile, hams in the U.K. will soon be doubling their number of 2 meter repeater pairs. Plans are be implemented to split the current 25 KHz system separation to 12.5 KHz, probably sometime early next year. Several British manufacturers say that the radios they are marketing for their domestic market can easily handle 12.5 Khz or even 10 Khz, if required.

NEW YORK HAM ARRESTED...Westlink

A New York City ham has been arrested for allegedly threatening the lives of Federal Agents. On August 2nd, the FBI, assisted by FCC investigators, took Anthony Marcantonio, KA2ZGE, of Queens into custody after monitoring threats against them. At the same time, they also seized some 20 pieces of his amateur radio gear. Earlier, FCC inspectors had responded to complaints from hams who claimed the he was interfering with other amateur communications on 2 meters, and it appears that their visit to his home may triggered the on-air incident that led to his arrest.

According to FCC reports, its investigators on July 27th used DF equipment to trace interfering signals to Marcantonio's home. The investigators say that they discussed the situation with a member of his family who then shut the transmitter off.

All was well until that evening when the transmissions resumed and continued into the following day. It was then that the FCC say that Marcantionio made the death threats against them. At that point they again acted, this time taking Marcantionio into custody and charging him with making threats by radio. This is a felony that carries a penalty of up to 5 years in prison, a $250,000 fine, or both, his bail was set at $50,000. No trial date has yet been set.

REGIONAL CTCSS TONES AGREED TO....K7CR

At the recent meeting of our areas Frequency Coordinators an agreement was reached as to recommended CTCSS tone frequencies, this in an effort to minimize the number of different tones in use. Under this plan only 6 CTCSS tones will be recommended by the Coordinators for use. Repeater users are certain to benefit from this decision for only 6 of the standard 32 tones will be used making equipment operation much easier.

The recommended tones are: (Freqs are in Hz)

88.5 -YB, 100.0 - 1Z, 103.5 - 1A, 114.8 - 2A
127.3 - 3A, 173.8 - 6A

Coordinators will RECOMMEND use of these tones, this will not, of course, preclude the use of other CTCSS tones by those that do not wish to comply.

TONE ONLY REPEATER PAIRS IN WESTERN WASHINGTON

Due to the continued evolution to more and more CTCSS or tone only repeaters on 2 meters in the WWARA area it is noted that the following repeater pairs have only CTCSS machines in operation:

145.11, 15, 23, 25 and 49. (145.13 and 29 are CTCSS ONLY SNP pairs),146.70 and 72, 147.10 and 12

CTCSS operation permits improved spectrum efficiency and has been encouraged by the WWARA for a number of years.

Repeaters In Southern California

In the event you have not been to LA land in recent times here is a look at the number of repeaters that are on the air in the LA/San Diego area.

Band	Open	Closed	Band	Open	Closed
6	13	8	2	181	81
220	115	115	440	31	488
902	7	23	1.2	21	65
Remote Bases			504 (420-430)		
			21 (430-440)		
ATV Systems			6		

The totals are equally impressive...1,736 coordinated systems known to be on the air in the Southern California region. This does not include a number of simpatchs and other experimental boxes.

Western Washington Amateur Relay Association
October 4, 1990
Board Meeting Minutes

The WWARA Board meeting was held at the Omni Restaurant on October 4, 1900. Those in attendance were as follows:

Nancy Mckibbin KB7BJE Mark McKibbin WR7V
Jon Marcinko W7FHZ Ken Koster N7IPB
Peter Dahl WA7FUS Dennis Goodwin KB7DZ
Bob St. Andre WA7NAN Steven Zielke N7JLF
John McAlister W7MSL Michael Greene KC7FN
Amanda Greene KB7ITD Claude AndersonAB7G
M. L. Gibson W7JIE Wayne Moddison K6DOW
Steven Mayes KA7PMC Don Rose W7JPH
Marc Herold KN7MVO Herman Entz K7PAG
Steve Kometz KC7RO Clay Freinwald K7CR

The meeting was called to order by Chairman K7CR at 7:37 pm. Introductions were made of those present. Clay then read several news items of interest from various publications.

The minutes of the last meeting were read and approved as written by W7JPH and WR7V.

The treasurers report was given as follows:

Previous Balance	$895.64
Printing	<65.00>
Aug refreshments	<10.00>
Postage	<90.00>
Regional Conf. Refresh	<11.62 >
Income from Dues	10.00

New Balance	$729.02

A bill was submitted to the treasure in the amount of $35.00 by K7CR for the last printing of the Coordinator.

The treasurers report was approved as read by WR7V and W7JPH.

Adjacent Area Reports

Regional Coordinators Meeting

The minutes were read from the Regional Coordinators meeting held on 9/29/90 at Mitzels Restaurant in Kent. One of the topics of the meeting was the boundary between ORRC and WWARA coordinating territories. Clay faxed a letter and 3 maps to Joel at ORRC with a recommendation that Woodland be included in ORRC territory. The WWARA board approved this recommendation as it had no effect on existing systems. Moved by WR7V and seconded KA7PMC. This change will be included in the coordination policies after both parties agree to the changes. Also at the meeting data bases were exchanged with Canada and Oregon.

Packet

Ken, N7IPB stepped in for Bob Donnell to represent NAPRA. NAPRA has appointed 2 members to serve on the packet coordination committee; Ken N7IPB and Dennis KB7DZ. NAPRA reported no new nodes, but the have a repeater (441.125/446.125) going up on the John Haye Elementary school on Queen Anne hill. A new green sheet will follow for the changing of the coordinated site.

Technical Committee

As a result of John Miller resignation there was no report.

Membership Committee

Steve reported one new dues payment and that he is looking into the cost of a preprinted dues payment envelope to be sent out as a reminder at the end of the year. A suggestion was made that Steve look into a self inking stamp and then use plain white envelopes.

FCC

Gibb reported that there are 3 or 4 people causing interference on the Mount. Pilchuck repeater. Gibb is asking for assistance from anyone that has good information regarding this interference.

He also reported on some rather unsavory interference on the BEARS repeater. After about 6 weeks of problems the BEARS were finally able to track down the individual causing the interference. They have obtained some video and audio tapes as well as the persons name, address, and auto license number. The individual was not a ham, but is a Boeing employee. He has since disappeared.

10/6 Meters

Clay reported that WR7V wants a 1.7 meg split for his repeater (52.37/53.37) changing the frequencies to 51.67/53.37. Clay asked the board if there was any objection and none was voiced. A new green sheet is forth coming.

Jim Kaufman, W7UMH wanted to know about moving his 10 meter repeater off 29.640 to either 29.630 or 29.650. The board labeled such operation as "tweener" and felt it would create more interference problems. The board though would be receptive to any other suggestions that would work for everyone.

2 Meters

No new coordinations. Peter WA7FUS, is going to submit a new green sheet for packet use to be located on Gold Mt. on 146.86. (More discussions later)

145.23 Race Horse in on and of the air testing with fair coverage. 145.23 Bellevue is waiting for antenna installation. 147.10 move has been held up due to John Millers illness. The 147.12 repeater in Olympia is on the air with some

problems and the Capital Peak 144.87/145.70 repeater has moved from the Weyhauser site to the DNR site.

220

Peter reported 3 new coordinations;

N7JTQ in Mountlake Terrace on 224.92 N7MEB in Tacoma on 224.96 and KG7IK in Sedro Wooley on 224.58.

440

John reported coordination to N7HNX on 446.050 / 441.050. Also he indicated there are 2 pending coordinations waiting for response to some letters he wrote asking if the individuals were still interested in a repeater pair as it had been quite awhile since the applications were submitted.

900/1200

Mark reported that there has been an inquiry regarding a 1.2 ghz repeater on Whidby Island.

He also reported that DAK has out a new 900 Mhz television transmitter operating on 911 or 918 for approx $100.

Old Business

147.20

Clay talked to Doug Rider about the interference on 147.200 to the K7PP repeater from the WA7HSJ repeater in E. Washington and received a letter from Doug. Clay also read a letter he drafted to Fred Allman regarding the interference problem. The board agreed and the secretarial pool will finalize and mail the letter.

SNP Revisited

KC7FN has had his 222.66/224.26 repeater linked to some 2 meter simplex channels and to the 145.29 SNP pair. This operation has created some concern amongst the current users of the SNP's. As a result Mike has had his link off for the last 3 weeks and believes the best answer is to find a 2 meter pair where he might cochannel his operation.

Data Base

Jon W7FHZ has started a central data base to handle everything for the WWARA. Mark WR7V will be taking over this project. The data base will be in Dbase format.

New Business

Board Position

Since John Miller has resigned the Board has decided to wait until the next general meeting in December and fill his position through the regular election process.

Packet

The consensus of the Board was to proceed with supporting the committee process as related to packet coordination. As a result the Board appointed WA7NAN and K7PAG to the committee. The purpose of the committee is to formulate the policies and procedures necessary to accommodate packet coordination. The committee was instructed to prepare a progress report for the December meeting.

Elections

The board voted against a nominating committee for the next elections.

Band Usage Plans

Wayne Moddison's band usage plan sheets were brought to the board for discussion. Several suggestions were made for revision with specific concerns regarding channelizaion of spectrum traditionally set aside for experimentation. Wayne agreed to continue working on them. It is expected that they will be published in the Coordinator.

Mailing Address

It was brought to the Board that a private mailbox and mail forwarding service be utilized for WWARA correspondence. In doing so the WWARA would be able to maintain a permanent address with all incoming correspondence being automatically forwarded to the current secretary. The cost of the service was reported to be between 6 and 10 dollars per month with forwarding costs to be 2 time the postage necessary to do the forwarding. The board agreed to try the service and instructed Mark WR7V and Jon W7FHZ to make the arrangements.

Dues

Steve KA7PMC suggested to the board the it has been forever since the dues were changed and with some of the additional costs anticipated in the future that the dues should be increased by 2 dollars per year. After a short discussion Steve's motion was seconded by WR7V and was approved by the board. The dues recommendation will be presented to the general membership for approval at the next regular business meeting in December.

Eastern Washington

Concerns regarding coordination in Eastern Washington was expressed by some of the board members. After a short discussion it was agreed to wait until next year after the WWARA elections to meet with Doug Rider for a Washington conference to exchange information.

Next Meeting

The next WWARA meeting is to be December 1, 1990 at the Riverside Inn in Tukwilla at 10:00 am.

Being no further business the meeting was adjourned at 10:40 pm.

Respectfully Submitted Nancy McKibbin KB7BJE

Regional Coordinators Meeting
September 29, 1990

The annual regional coordinators meeting sponsored by the WWARA was held September 29, 1990 at Mitzel's restaurant in Kent, Washington. Those in attendance were:

Bob Smits VE7EMD 604 523-2136 PRARFCA
Joel Determan WB7TGZ 800 233-3111 ORRC
Mark McKibbin WR7V 206 881-1088 WWARA
Nancy McKibbin KB7BJE 206 881-1088 WWARA
Jon Marcinko W7FHZ 206 839-7866 WWARA
Don Rose W7JPH 206 562-3240 WWARA
Steven Mayes KA7PMC 206 232-1901 WWARA
Clay Freinwald K7CR 206 939-1414 WWARA
Peter Dahl WA7FUS 206 778-3581 WWARA

After introductions the meeting was called to order at 12:05 pm.

DATA BASE EXCHANGE

The first order of business was a discussion on exchanging data bases between organizations and whether or not to support the ARRL data base. All agreed that exchanging data bases with each other was a prudent thing to do however certain information in the respective data bases was to be restricted to coordinators and not for general publication.

With respect to the ARRL data base there was a general consensus that participating would be advisable. Several members shared previous problems where the ARRL was told not to publish certain information yet did so. As a result of this it was agreed that LINK frequency information would be provided only with frequency and call information.

OREGON / WASHINGTON BOUNDRY

The discussion proceeded to verification of the coordinating boundary between the WWARA and ORRC. Both organizations basically agreed on the boundary. Joel indicated he would forward a map to Clay with the necessary ORRC board member signatures indicating concurrence.

TWO METERS

Under 2 meter discussion Joel announced that to the best of his knowledge Mr. Almans 145.15 repeater had moved back to its original coordinated location. When asked how they accomplished getting Mr. Alman to move, Joel indicated that it was because of the letters from the WWARA.

With respect to Mr. Almans' 147.20 repeater in E. Washington, Clay allowed he would be writing Mr. Alman regarding the interference he was causing to K7PP's repeater in the Kent valley area.

Wayne Modison's 2 meter usage chart was passed around for review. Some concerns were raised about chanelizing certain portions of the band reserved by the ARRL band plan for experimental modes. It was the recommendation of the group that Clay work with Wayne to share the groups concern.

STANDARD CTCSS FREQUENCIES

Joel also indicated that the ORRC is moving towards standard PL tone frequencies for its tone only repeater pairs. Those tones being; 88.5, 100, 103.5, 127.3, 173.8 and 114.8. This concept was well received by the members present. Bob Smits did allow that he had tried something similar in BC only to retain bullet wounds.

PACKET RADIO

Packet coordination was brought to the table by Joel (ORRC) in that they are being requested by the local packeteers to take over the coordination of packet frequencies. He elaborated several problems with self appointed coordinators. Jon (WWARA) also elaborated that NAPRA was looking towards the WWARA for coordination as well. Bob (PRARFCA) has all along been coordinating packet frequencies and has not had the same problems.

220 BAND

220-222 What to do at this time ?..... The groups consensus - Nothing.

SIX METERS

6 Meters: Clay asked the different members present to PLEASE write a letter to the ARRL membership services and to the VRAC requesting that;

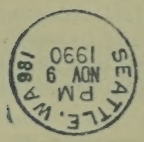
1) Don't jump and adopt the S. Calif. plan.
2) Get national input from all groups.
3) Study the comments carefully.
4) Adopt a plan that has national consensus.

Being no further business the meeting was adjourned at 3:30 pm

Recording Secretary - Mark McKibbin WR7V

THINK GREEN SHEETS

BOB DONNELL 1990
PO BOX 45645
SEATTLE, WA 98145



8521 107 AVE SE
AUBURN WA 98002

THE WESTERN WASHINGTON AMATEUR RELAY ASSOCIATION

SERVING REPEATER OWNERS AND USERS SINCE 1976

BOARD OF DIRECTORS, 1990

POSITION	NAME	CALL	PHONE
Chairman	Clay Freinwald	K7CR	939-1414
Vice Chairman	Steve Mayes	KA7PMC	232-1901
Secretary/Treas.	Jon Marcinko	W7FHZ	839-7688
Representative #1	VACANT		
Representative #2	Bob St Andre	WA7NAN	746-6217
Representative #3	Don Rose	W7JPH	362-3240
Representative #4	Mark McKibbin	WR7V	483-6999
COMMITTEE CHAIRMEN			
Technical	VACANT		
Membership	Steve Mayes	KA7PMC	232-1901
FCC Liaison	Gib Gibson	W7JIE	226-4222
Coordinator Editor	Clay Freinwald	K7CR	939-1414
10 & 6 Meters	Clay Freinwald	K7CR	939-1414
2 Meters	The Board of Directors		
220 MHz	Peter Dahl	WA7FUS	778-3581
440 MHz	Jon Marcinko	W7FHZ	839-7688
900/1200	Mark McKibbin	WR7V	483-6999
Packet Systems	Bob Donnell	KD7NM	364-6222

Please feel free to contact your WWARA officials at any time for additional information about the Association.The COORDINATOR is published 6 times a year and is mailed to all parties having a WWARA coordinated system as well as those whom are paid USER members. Dues are $10 per calendar year.